CLAIMS

WHAT IS CLAIMED IS:

1. An apparatus for use in a cordless device, comprising:

an antenna component configured to couple to a radio transmitter, the antenna component further configured for electromagnetic propagation of a signal from the radio transmitter; and

a metallized membrane of a keyswitch matrix system, the metallized membrane having a surface that comprises a first geometric shape printed with conductive ink, the first geometric shape configured to couple with the antenna component.

2. The apparatus of claim 1, wherein the first geometric shape printed on the metallized membrane comprises a ground plane.

3. The apparatus of claim 1, wherein the antenna component is configured to form an antenna loop.

4. The apparatus of claim 1, wherein the signal corresponds to a pressing of a key, the signal being generated in the keyswitch matrix system by conductive traces electrically coupling upon the pressing of the key.

5. The apparatus of claim 1, wherein the metallized membrane is one of a top, a middle, or a bottom membrane in a three layer keyswitch matrix system.

6. The apparatus of claim 1, further comprising a second metallized membrane having a second geometric shape printed with conductive ink, the second geometric shape coupled to the first geometric shape and configured to form at least part of an antenna.

7. The apparatus of claim 1, wherein the cordless device is one of a keyboard, a mouse, a digital camera, a joystick, or a game pad.

8. An apparatus for use in a cordless device, comprising:

means for propagating electromagnetic energy through coupling to a radio transmitter; and

means for electrically grounding configured to couple to a radio frequency transmission system, the means for electrically grounding printed on a membrane of a keyswitch matrix system and coupled to the means for propagating.

9. The apparatus of claim 8, wherein the means for propagating is configured to from a loop antenna.

10. The apparatus of claim 8, wherein the radio frequency transmission system comprises one of a transmitter, a receiver, or a transceiver.

11. The apparatus of claim 8, wherein the keyswitch matrix system is within one of a keyboard, a mouse, a digital camera, a joystick, or a game pad.

12. A method of manufacturing antenna components on a membrane keyswitch assembly having a plurality of membranes, the method comprising:

printing with an electrically conductive printing substance a geometric shape on a surface of one of the plurality of membranes, the geometric shape forming a ground plane; and

electrically coupling the printed geometric shape with one or more antenna components.

13. The method of claim 12, wherein the printing includes one of screen printing, ink jet printing, and laser printing.

14. The method of claim 12, wherein the electrically conductive printing substance is a metallic ink.

15. The method of claim 12, wherein the geometric shape is one of a, grid, or a continuous polygonal surface.